

Overview



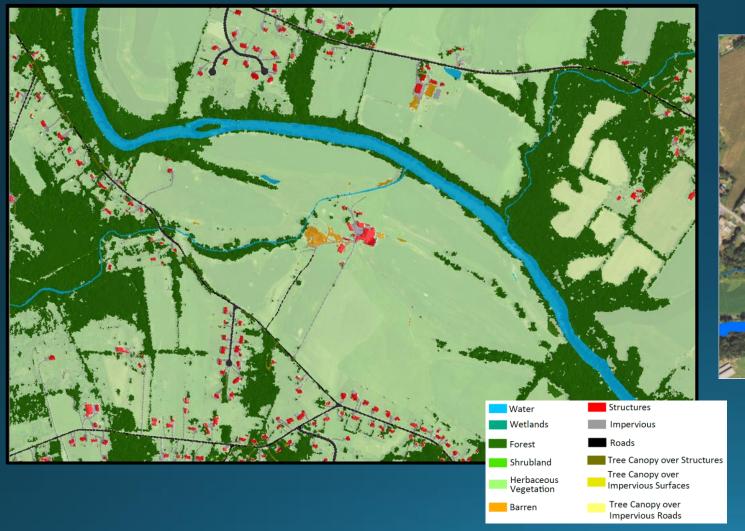




Precision conservation



Getting the right practices, in the right place, at the right scale.

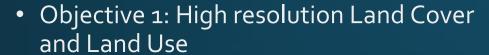




6-year Cooperative Agreement with the Chesapeake Bay Program

Chesapeake Conservancy

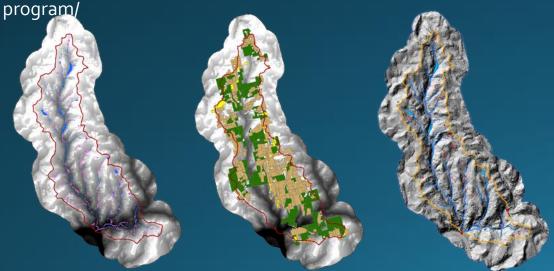


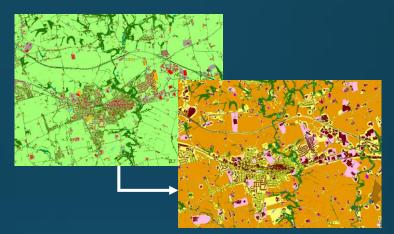


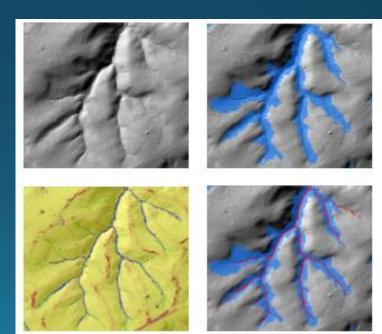
- Objective 2: High resolution Hydrography and Ditch Mapping
- Objective 3: BMP Opportunity Mapping
- Objective 4: CBP Geospatial Support

For more information:

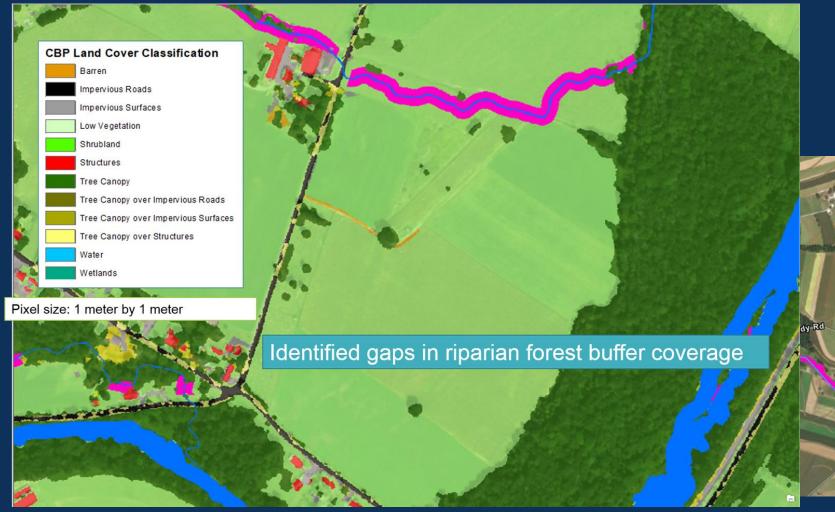
https://www.chesapeakeconservancy.org/conservation-innovation-center/precision-conservation/chesapeake-bay-







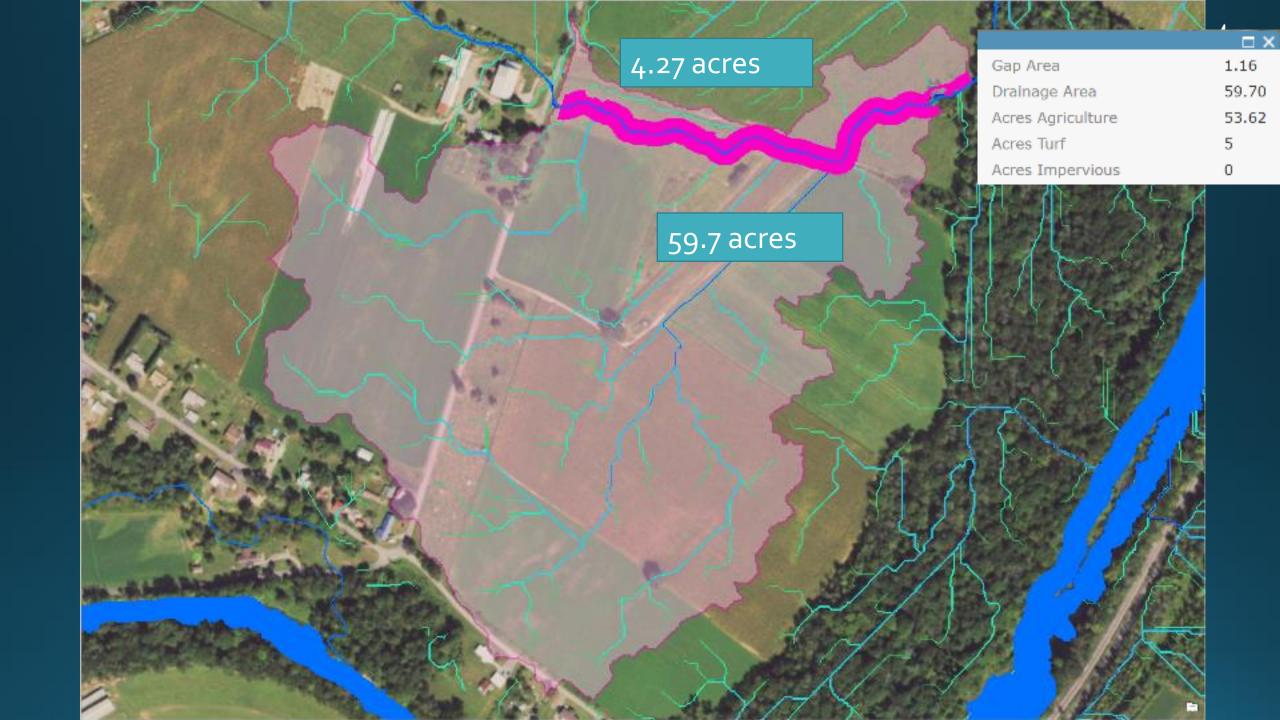








Riparian Forest Buffer opportunity footprints





Enhanced flowpath dataset





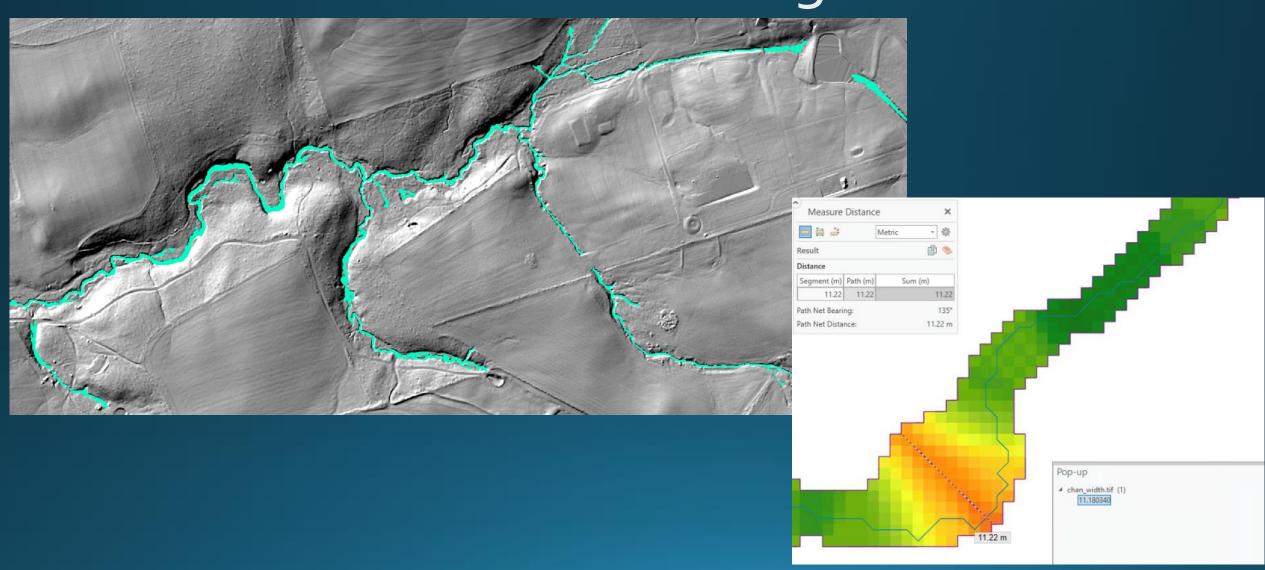
Please see Enhanced Flow Path links for more information: https://www.chesapeakeconservancy.org/conservation-innovation-center/high-resolution-data/enhanced-flow-paths/https://chesapeakeconservancy.org/wp-content/uploads/2018/07/CIC_Enhanced_Flowpath_Methods_20180703.pdf

Hyper-Resolution Hydrography





Channel width and bank height









- BMP opportunity layers as a reference resource:
 - Streamline watershed planning
 - Engage wide audience
 - Potential opportunities for suite of practices
 - Starting point for more efficient field visits
 - Data to support funding proposals

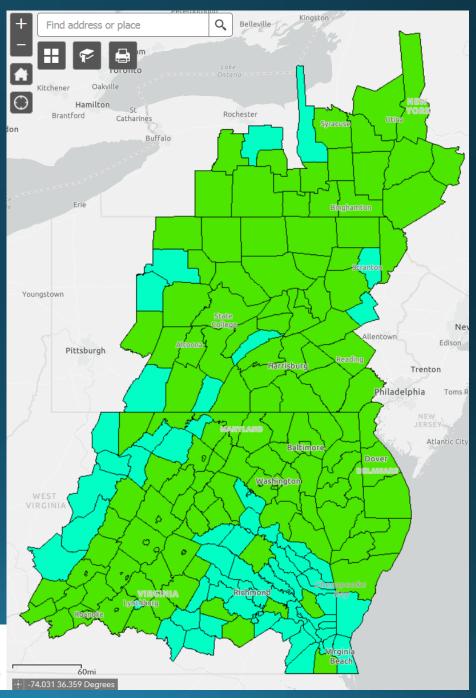


Schematic Illustration of Several In-Field and Edge-of-Field Buffer Types (photo courtesy of USDA-NRCS).

High resolution datasets schedule

- High Resolution Land Use/Land Cover (HRLULC)
 - 2013/14 HRLULC available
 - 2017/18 HRLULC (late 2021)
 - 2021/22 HRLULC (TBD, pending imagery release and review)
- Hyper Resolution Hydrography
 - (TBD, dependent on data availability and review)
- BMP Opportunity Datasets
 - (TBD, dependent on data availability and review)
 - Maryland statewide Riparian forest buffer opportunity dataset
 - 2013/14 HRLC and EFP hydrography (Fall 2021)
 - Updated 2017/18 HRLC and EFP hydrography (expected 2022)
 - Updated 2021/22 HRLC and HRH hydrography



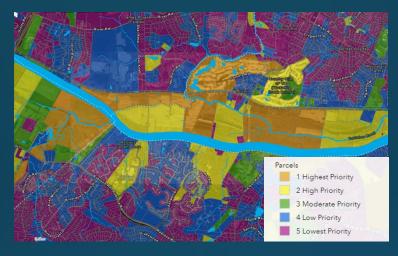


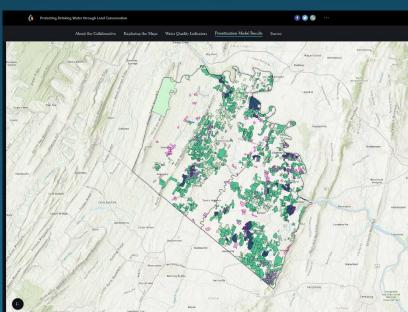
Visualizing the Data





- Prioritization tools
 - Common units of interest: by parcel, sub-watershed
 - Field scale restoration and conservation opportunities
- Web tools
 - Outreach and Education
 - Identifying potential projects
 - Coordination and Planning
 - Tracking progress of implemented projects
 - PDF Report Generation







A Story Map & Maryland Treat Conservation and Restoration in the Antietam/Catoctin Watershed Land Conservation Antietam/Catoctin Watershed Explore the parcels within the Antietam/Catoctin watersheds to see where there are opportunities for riparian buffer restoration projects: Parcels Streams Riparian Buffer Restoration Opportunities **MET Properties** 8 Digit Watersheds EST, NASA NGA USGS, FEMA WashCo MD, VITA EST, HERE, GARMIN, INCREMENT P, METUNASA, USGS, EPA NPS, US CENSUS BUTEAU, USDA MD MAP

Streams Riparian Forest Buffers Urban Sprawl

Tree Canopy

Tree Canopy

About the Collaborative

Source: Chesapeake Bay High Resolution Land Cover from Chesapeake Conservancy Conservation Innovation Center, WVU GIS Clearinghouse. Erased the 100' riparian forest buffers from the tree canopy layer to create this indicator.

Exploring the Maps Model Indicators

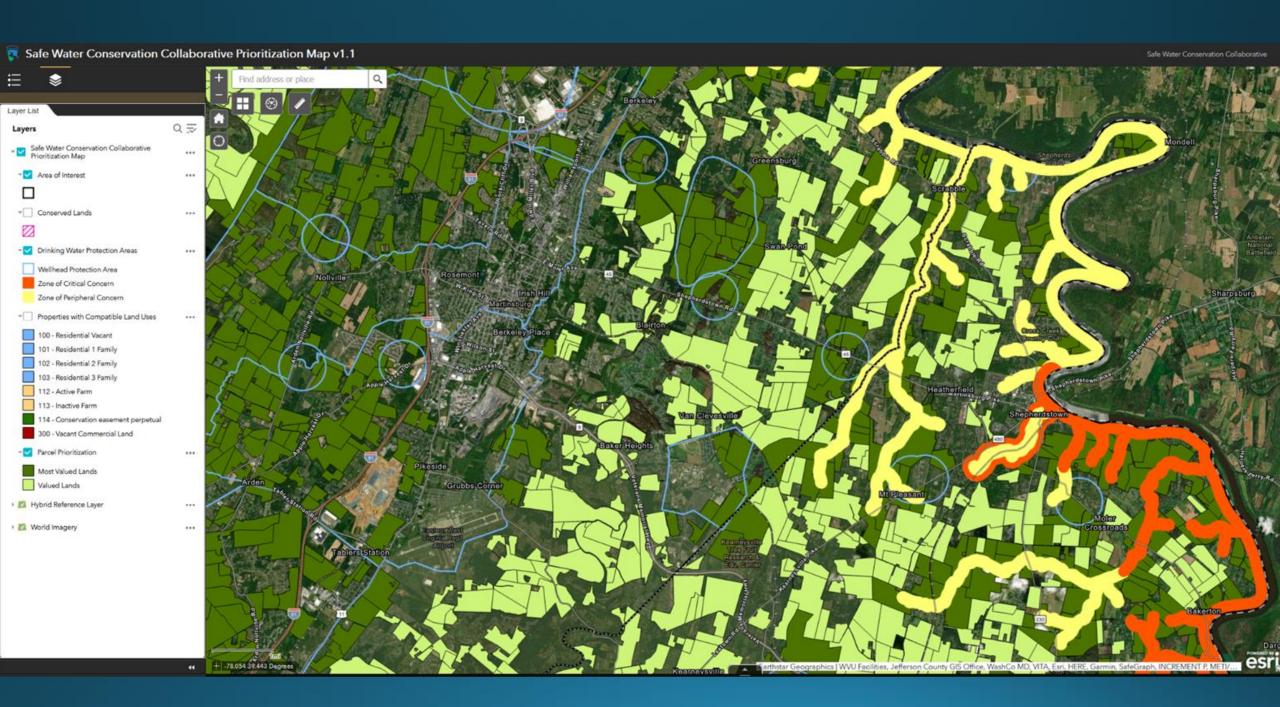
Karst

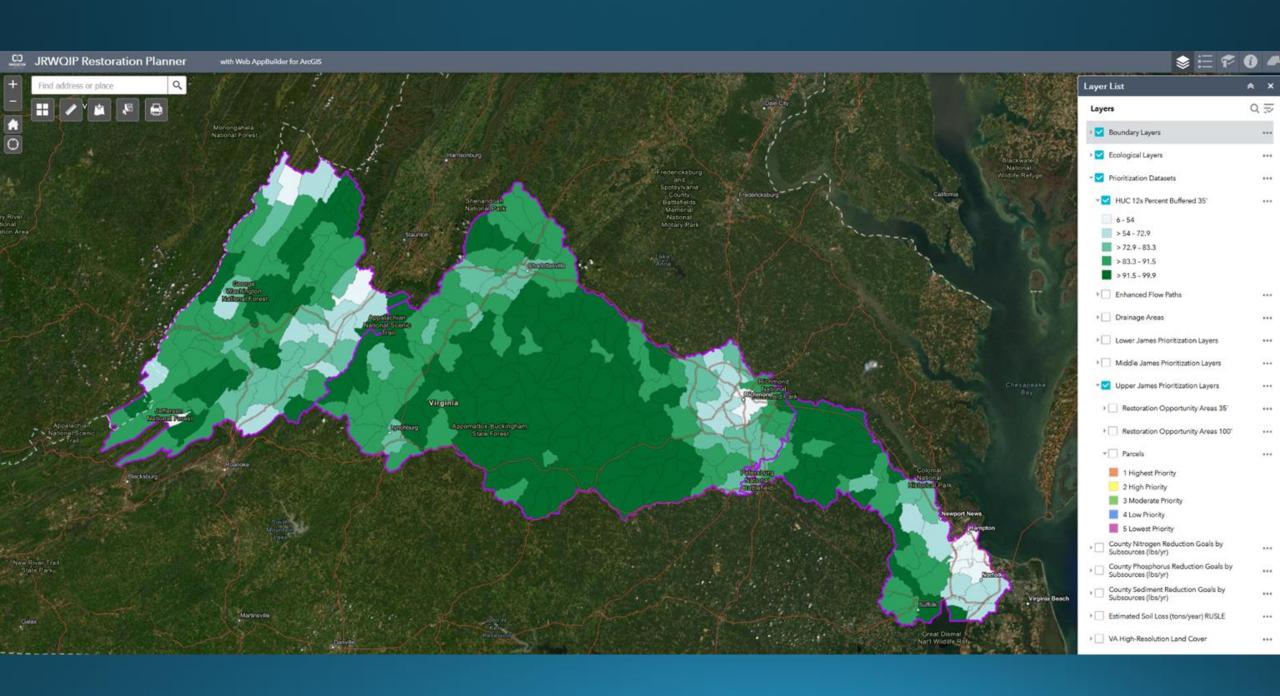
Measurement: Acres of tree canopy

Justification: "Forests are the most effective land cover for maintenance of water quality. They serve as natural sponges, collecting and filtering rainfall and releasing it slowly into streams. Forest cover has been directly linked to drinking water treatment costs - the more forest in a source water watershed, the lower the treatment costs", Common Waters Fund.

Click here to open this web map in a new tab.







RESTORATION REP®RTS

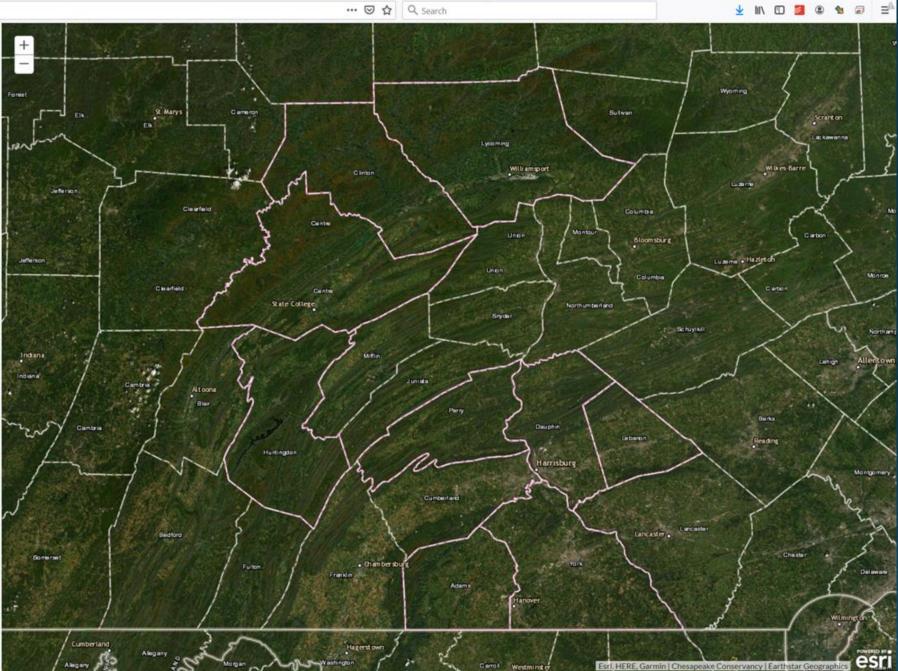
Precision conservation for your property

If you are a landowner in Adams, Clinton, Centre, Dauphin, Huntingdon, Lancaster, Lebanon, Lycoming, Perry, or York counties, Pennsylvania, this free, confidential tool can help you get information about restoration opportunities on your property that can improve the ecological conditions you care about.

Using state-of-the art data analysis, Restoration Reports generates a customized report for your property, including the watershed you are a part of, the wildlife species that may live on your property, and whether you are in close proximity to an impaired stream.

You can then select your management priorities, for example, improving the hunting and fishing on your property, or supporting your agricultural land uses.

Get started



Resources

Explore your property

PARCEL IDENTIFIER WATERSHED
38H11-0021--000 Rock Creek

LAND COVER COMPOSITION (ACRES)

Land cover type	Within parcel
Tree canopy	27.70
Tree canopy over impervious surface	0.17
Shrubs and wetland	0.00
Low vegetation	112.69
Bare earth	0.00
Impervious surface	1.51
Water	0.00

ACREAGE OF RESTORATION AREA

2.77 acres

ACREAGE OF DRAINAGE THROUGH RESTORATION AREA

163.45 acres

2. Select your management priorities



Agriculture



Restoration can help manage nutrients and improve soil and livestock health.



Recreation



Hunting, fishing, and exploring your property safely.



Wildlife



Young and mature forests and the species that inhabitat them.



Thank you!

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